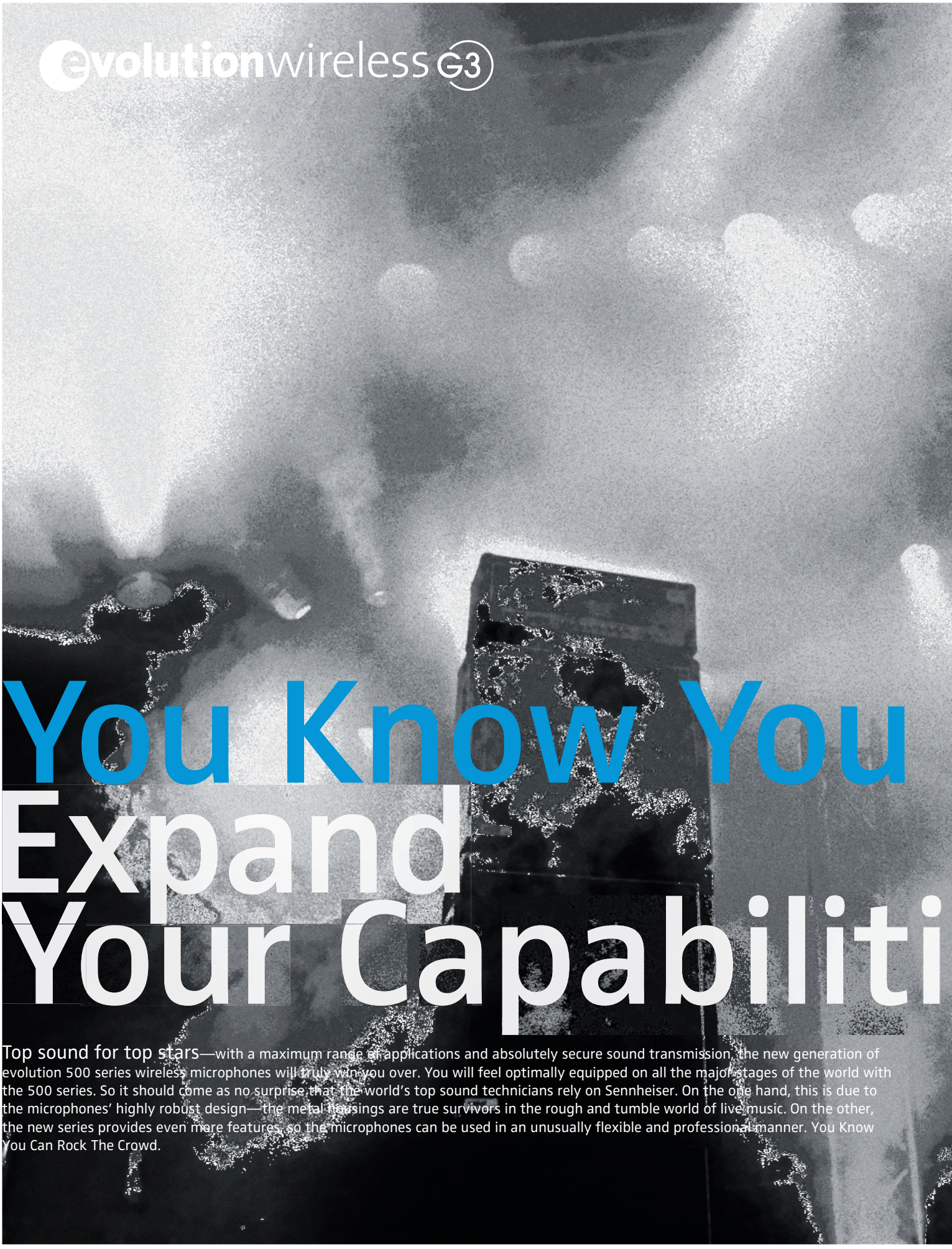
SENNHEISER
evolution wireless G3
You Know
You Can
series
500



Top sound for top stars—with a maximum range of applications and absolutely secure sound transmission, the new generation of evolution 500 series wireless microphones will truly win you over. You will feel optimally equipped on all the major stages of the world with the 500 series. So it should come as no surprise that the world's top sound technicians rely on Sennheiser. On the one hand, this is due to the microphones' highly robust design—the metal housings are true survivors in the rough and tumble world of live music. On the other, the new series provides even more features, so the microphones can be used in an unusually flexible and professional manner. You Know You Can Rock The Crowd.

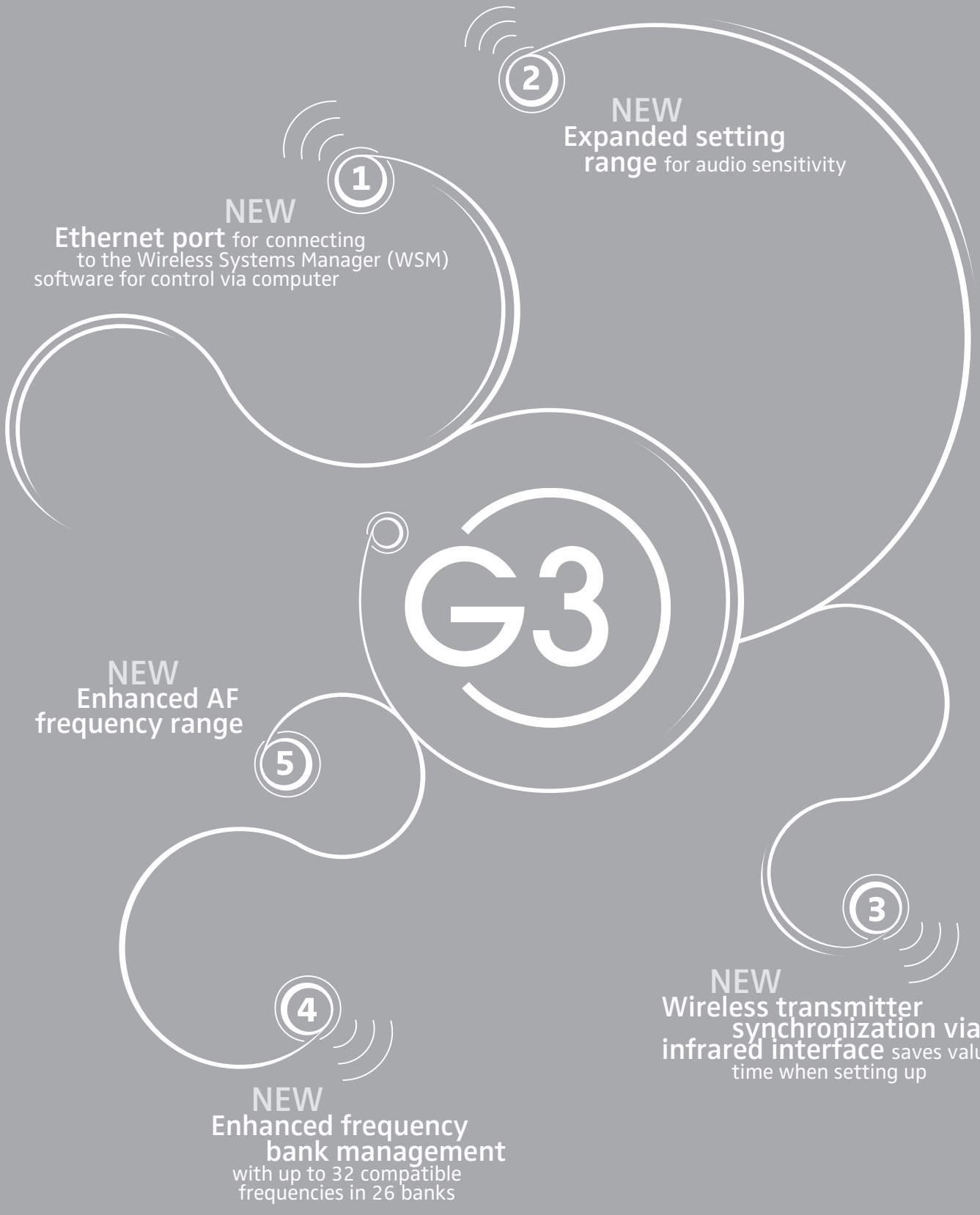
Can
es

evolution wireless G3

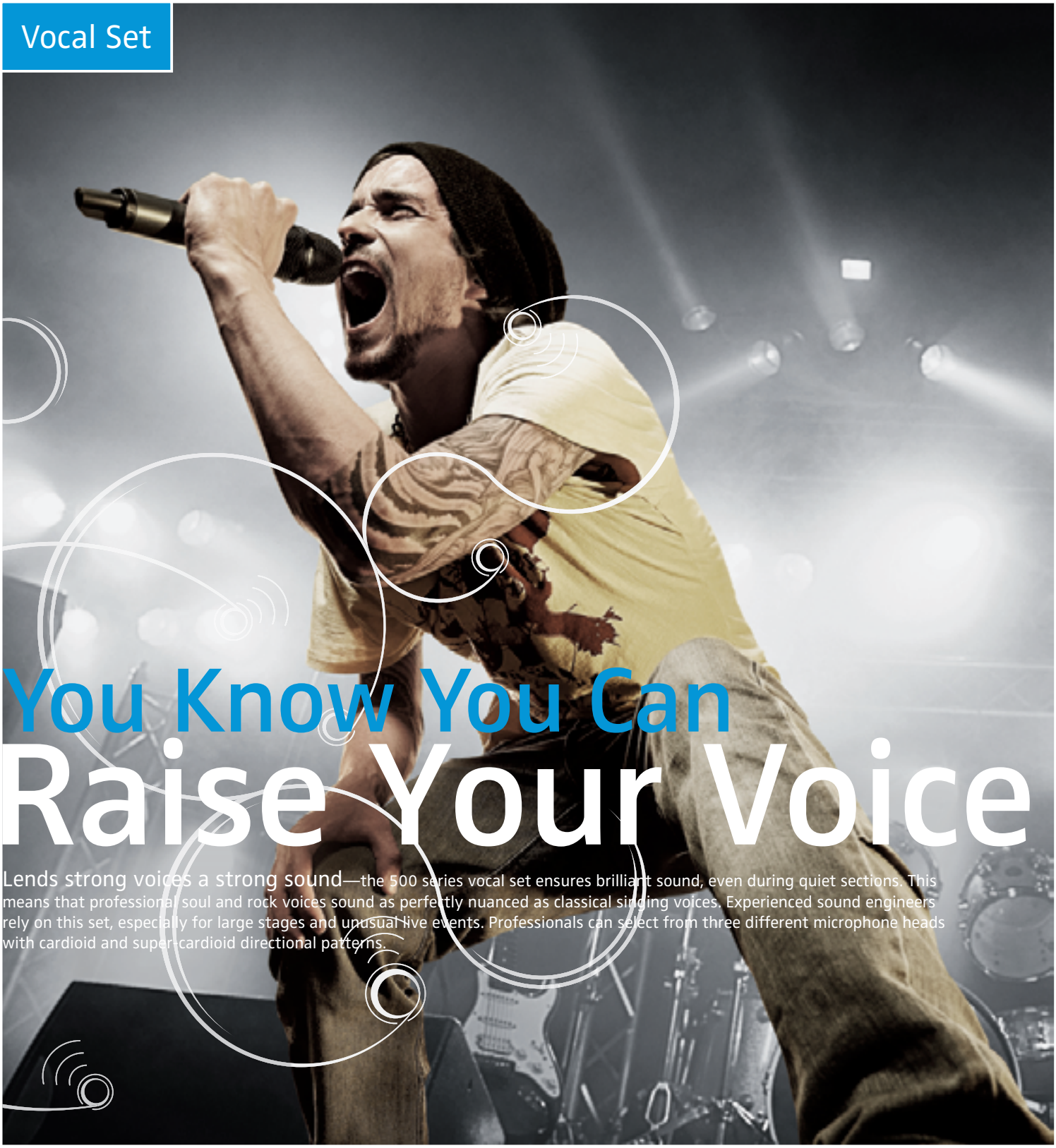
Introducing evolution wireless Generation 3

The evolution wireless 500 series offers a range of new features that will convince you professionally on all the major stages. Increased switching bandwidth of 42 MHz and 1,680 switchable frequencies, plus an expanded setting range for audio sensitivity, ensure that vocals and instruments are transmitted in reliable and crystal-clear fashion. What is more, PC frequency management for transmitter and receiver guarantees clear monitoring and professional data management of multi-channel systems. In the fast pace of daily stage life, the soundcheck mode and integrated equalizer are just as practical as the battery status display and true diversity receiver for optimal reception.

The 500 series combines the finest Sennheiser live sound with a range of technical innovations—it is your companion in the world of professional wireless sound transmission. evolution wireless G3: You Know You Can.


2
NEW
Expanded setting range for audio sensitivity
1
NEW
Ethernet port for connecting to the Wireless Systems Manager (WSM) software for control via computer
G3
NEW
Enhanced AF frequency range
5
3
NEW
Wireless transmitter synchronization via infrared interface saves valuable time when setting up
4
NEW
Enhanced frequency bank management
with up to 32 compatible frequencies in 26 banks

Vocal Set



You Know You Can Raise Your Voice

Lends strong voices a strong sound—the 500 series vocal set ensures brilliant sound, even during quiet sections. This means that professional soul and rock voices sound as perfectly nuanced as classical singing voices. Experienced sound engineers rely on this set, especially for large stages and unusual live events. Professionals can select from three different microphone heads with cardioid and super-cardioid directional patterns.

Available Sets

ew 500-935 G3

SKM 500-935 G3 handheld transmitter with cardioid dynamic head, with EM 500 G3 true diversity receiver, GA 3 rack mount, and MZQ 1 microphone clamp

ew 500-945 G3

SKM 500-945 G3 handheld transmitter with cardioid dynamic head, with EM 500 G3 true diversity receiver, GA 3 rack mount, and MZQ 1 microphone clamp

ew 500-965 G3

SKM 500-965 G3 handheld transmitter, switchable polar patterns: cardioid/supercardioid true condenser, dual large diaphragm, with EM 500 G3 true diversity receiver, GA 3 rack mount, and MZQ 1 microphone clamp

True diversity receiver
- Ethernet port for connecting to the WSM(Wireless Systems Manager)
- Infrared interface for wireless synchronization of transmitters
- Headphone monitor

1

mixing console

Switchable
transmission power (10mW/30mW)

2

5

Clear, distinct transmission due to highly accentuated live sound. Clearly highlights the microphone voice

3

Transmission control is simple with the large display

Easy to exchange microphone heads
from the e900 pro series

4

evolution wireless G3

Extremely small bodypack transmitter
guarantees absolute freedom of movement

1

RF/AF mute

2

True diversity receiver
- Ethernet port for connecting to the WSM(Wireless Systems Manager)
- Infrared interface for wireless synchronization of transmitters
- Headphone monitor

3

guitar amp

instrument

4

Integrated guitar tuner

5

Charging contacts

6

Integrated control menu with guitar cable emulation

7

Easy-to-read display
with battery level display: for full control at the gig

Instrument Set

You Know You Can Rock The Crowd

Wireless sound transmission has become the standard for a professional live performance. The evolution wireless G3 500 Series Instrument Set not only frees you from cables—its flexibility, sturdiness, and lightness all set absolutely professional standards. The ultra-light bodypack transmitter can be attached inconspicuously to a belt or guitar strap. The clear dot matrix display leads you intuitively through the control menu, and can be easily read—even under difficult lighting conditions. A brand-new feature of G3: a guitar tuner that is extremely practical, as it is integrated directly into the receiver—and makes a tuning device for guitar and e-bass unnecessary!

Available Set

ew 572 G3

SK 500 G3 bodypack transmitter,
EM 500 G3 true diversity receiver,
CI 1 guitar cable,
and GA 3 rack mount

Presentation Set

You Know You Can Impress

These days, successful presentations depend on many factors. One of the most important: absolutely reliable sound transmission. The G3 Presentation Set offers the professional quality standard demanded by TV studios and on large stages. Presenters and lecturers can move freely – and due to the special frequency response of the professional clip-on microphone, their voices can even be heard in the very last rows. Connected to the flexible bodypack transmitter, the cable is hidden discreetly under the clothing.

Available Set

ew 512 G3

MKE 2 clip-on microphone, omnidirectional, EM 500 G3 true diversity receiver, SK 500 G3 bodypack transmitter, and GA 3 rack mount

True diversity receiver
- Ethernet port for connecting to the WSM(Wireless Systems Manager)
- Infrared interface for wireless synchronization of transmitters
- Headphone monitor

1

Large display ensures the necessary control over the performance, even in bad light

2

mixing console

Charging contacts

3

5

Extremely small clip-on microphone

4

Optimized frequency response for clear, distinct transmission

You Know You Can Expand

With the evolution wireless G3, complete sets can be tailored to your individual needs using professional accessories and individual components. Simply expand your G3 system as your requirements grow.

GA 3 Rack mount

AB 3 Antenna booster

CC 3 System case

BA 2015 Rechargeable battery pack

LA 2 Charging adapter for SKM, used with L 2015

A 2003 Directional UHF antenna

A 1031 Passive omnidirectional UHF antenna

L 2015 Charging unit

NT 1-1 Mains unit for ASA 1 and L 2015

NT 2-3 Mains unit for EM 500

AM 2 Antenna front mount

evolutionwireless G3

Mic heads
MMD 835/845/935/945
MME 865/MMK 965

KEN 2 Color-coded identification rings for handheld transmitter

MZW 1 Windshield

CL 2 Line cable

HSP 2 Headset, omnidirectional

HSP 4 Headset, cardioid

BPP 1 Bodypack pouch

HHP 2 Pouch for handheld transmitter

You Know You Can Control Everything

The "Wireless Systems Manager" (WSM) enables realtime monitoring and remote control of all relevant equipment parameters during live operation. Using the WSM PC software you can:

- display and monitor the connected equipment
- configure the connected equipment
- conduct a frequency preset scan
- control combined systems and multichannel systems
- access updates at www.sennheiser.com

You Know You Can Have Them All

evolution series 900

e9 35 Professional vocal microphone with cardioid pattern, dynamic.

e9 45 Professional vocal microphone with super-cardioid pattern, dynamic.

e9 65 Professional vocal microphone with true condenser capsules with switchable polar pattern (cardioid & supercardioid) in large diaphragm technology.

e 901 The half-cardioid is the perfect condenser microphone for kick drum. It is highly robust and step-resistant. It benefi ts from an integrated preamp.

e 902 is a dynamic cardioid instrument microphone, which was designed for lowest bass signals with very high sound pressure levels. It is suitable for kick drums, bass guitar-amps, tuba, and other bass instruments.

e 904 is a cardioid dynamic instrument microphone especially designed for drums.

e 905 The cardioid can handle very high sound pressure levels and has an excellent transient response. It is suitable for a wide range of instruments and an perfect choice for snare drums.

e 906 The supercardioid e 906 instrument microphone was especially designed for guitar amplifiers, but it is also an excellent choice for percussion and brass instruments.

e 908 The condenser e 908 is available for two different applications:
e 908 D perfect for drums and percussion.
e 908 B especially designed for brass instruments.

e 912 is a highquality, pre-polarized condenser microphone with half-cardioid pick-up pattern, acoustically optimized for picking up speech.

e 914 is a high grade condenser microphone for very demanding applications. Its outstanding sound properties qualify the e 914 for highly sophisticated tasks.

You Know You Can Check It Out

Animated instruction manual at www.sennheiser.com. Experience G3 on our Web site www.sennheiser.com. Online applications simulating a realistic stage setup are available here.

G3 at www.sennheiser.com:

- Detailed product descriptions
- Animated instruction manuals
- Virtual area to try out the sets
- New guitar tuner check

You Know You Can Make Up Your Mind

The evolution wireless G3 is at home on all the stages of the world—from small clubs to large concert halls, as well as theater and opera stages. The only important thing left to do is decide on the right set. The various features of the evolution wireless G3 100 / 300 / 500 series have been designed to suit specific requirements.

evolution wireless G3

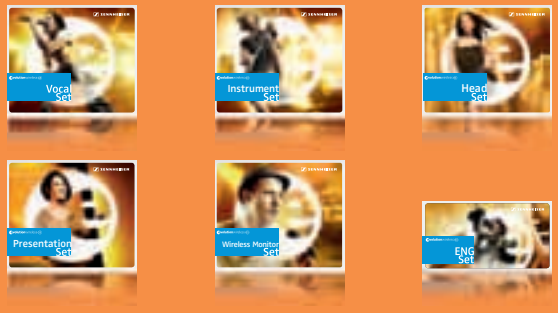
series
100

incl. Wireless Monitor Set

- **NEW:** Wireless synchronization of transmitters via infrared interface
- **NEW:** Enhanced frequency bank management with up to 12 compatible frequencies per bank
- **NEW:** 42 MHz bandwidth, 1,680 switchable frequencies*
- **NEW:** Easy-to-read illuminated dot matrix display
- **NEW:** 4-level charge indicator for transmitter battery
- **NEW:** More control options (menu)
- **NEW:** Enhanced AF frequency range
- **NEW:** Increased range for audio sensitivity
- **NEW:** Soundcheck mode
- **NEW:** Integrated equalizer
- **NEW:** Guitar cable emolution
- **NEW:** Contacts for recharging the BA 2015 accupack directly in the transmitter
- **NEW:** Integrated guitar tuner in receivers
- **NEW:** Portable receivers with adaptive diversity reception
- **NEW:** Easy-to-exchange handheld capsules
- 2 AA batteries for more than 8 hours of use
- HDX compander for crystal-clear sound
- True diversity receiver for optimum reception
- High RF output power for large range*
- Suitable for 19" rack mounting (1 U)
- Easy-to-exchange capsules

Wireless Monitor Set

- **NEW:** SR 300 IEM with Ethernet port
- **NEW:** Receiver with Adaptive Diversity
- **NEW:** Combined balanced XLR / 6.3 mm audio inputs
- **NEW:** Balanced 6.3 mm Audio Loop Outs
- **NEW:** Graphical 5 band EQ in transmitter
- **NEW:** Audio limiter in Receiver adjustable in 4 steps



*See accompanying information for regulations regarding correct deployment and frequency use

series 300

- **NEW:** Ethernet port for connecting to the Wireless Systems Manager (WSM) software for control via computer—this delivers a good overview of monitoring and professional data management for multichannel systems
- **NEW:** Wireless synchronization of transmitters via infrared interface
- **NEW:** Enhanced frequency bank with up to 24 compatible frequencies
- **NEW:** 42 MHz bandwidth, 1,680 switchable frequencies*
- **NEW:** Increased range for audio sensitivity
- **NEW:** Large, illuminated dot matrix display with warning indicator
- **NEW:** More control options (menu)
- **NEW:** Enhanced AF frequency range
- **NEW:** Soundcheck mode
- **NEW:** Integrated equalizer
- **NEW:** Switchable RF output power*
- **NEW:** Optional remote switch
- **NEW:** Configurable mute modes
- **NEW:** Easy-to-reach configurable mute button on handheld transmitters
- **NEW:** Handheld transmitters with charging contacts
- 2 AA batteries for more than 8 hours of use
- 4-level charge indicator for transmitter battery
- Contacts for recharging the BA 2015 accupack directly in the transmitter
- HDX compander for crystal-clear sound
- True diversity receiver for optimum reception
- Incl. installation kit for 19" rack mounting (1 U)

series 500

- **NEW:** Ethernet port for connecting to the Wireless Systems Manager (WSM) software for control via computer—this delivers a good overview of monitoring and professional data management for multichannel systems
- **NEW:** Wireless synchronization of transmitters via infrared interface
- **NEW:** Enhanced frequency bank with up to 32 compatible frequencies
- **NEW:** 42 MHz bandwidth, 1,680 switchable frequencies*
- **NEW:** Increased range for audio sensitivity
- **NEW:** Large, illuminated dot matrix display with warning indicator
- **NEW:** More control options (menu)
- **NEW:** Enhanced AF frequency range
- **NEW:** Guitar cable emulation
- **NEW:** Switchable RF output power*
- **NEW:** Handheld transmitters with charging contacts
- **NEW:** Integrated guitar tuner in receivers
- Soundcheck mode
- Integrated equalizer
- 2 AA batteries for more than 8 hours of use
- 4-level charge indicator for transmitter battery
- Contacts for recharging the BA 2015 accupack directly in the transmitter
- HDX compander for crystal-clear sound
- True diversity receiver for optimum reception
- Incl. installation kit for 19" rack mounting (1 U)
- Professional e 900 microphone capsules

Technical Data

	ew500 G3
Modulation	wideband FM
Frequency ranges	516–558, 566–608, 626–668, 734–776, 780–822, 823–865
Transmission/receiving frequencies	20 channel banks, 6 fixed banks, 32 factory preset channels each
Switching bandwidth	42 MHz
Noise reduction system	Sennheiser HDX
AF frequency response	25–18,000 Hz
S/N ratio (at 1 mV and peak deviation)	≥ 115 dBA
THD (at nominal deviation and 1 kHz)	≤ 0.9%

Receivers

	EM500 G3
Receiver principle	true diversity
Sensitivity (with HDX, peak deviation)	< 2 µV at 52 dBA_{eff} S/N
Adjacent channel rejection	≥ 75 dB
Intermodulation attenuation	≥ 70 dB
Blocking	≥ 75 dB
Pilot-tone squelch	detachable
Antenna inputs	5 BNC sockets ¼" (6.3 mm) jack socket, unbalanced: +12 dBu XLR socket, balanced: +18 dBu
AF output voltage (at peak deviation, 1 kHz AF)	
Power supply	12 V DC
Dimensions	202 mm x 212 mm x 43 mm
Weight	approx. 980 g

Transmitters

	SK500 G3	SKM500 G3
RF output power at 50 Ω	typ. 30/10 mW, switchable	typ. 30/10 mW, switchable
AF frequency response	25–18,000 Hz (line) 80–18,000 Hz (mic)	80–18,000 Hz
Max input voltage transmitter / line	3 V_{eff}	
Input impedance transmitter / line	40 kΩ, unbalanced / 1 MΩ	
Power supply	2 AA batteries, 1.5 V	2 AA batteries, 1.5 V
Nominal voltage	2.4 V	2.4 V
Operating time	typ. 8 h	typ. 8 h
Dimensions	82 x 64 x 24 mm / 3.23" x 2.52" x 0.94"	∅ 50 x 265 mm
Weight	approx. 160 g	approx. 450 g / 15.87 oz

Microphones	MKE2- ew
Transducer principle	condenser
Sensitivity	6.3 mV/Pa ±2.5 dB
Pick-up pattern	omnidirectional
Max. SPL	142 dB SPL

Microphonehea ds	SKM 500-935 G3	SKM 500-945 G3	SKM 500-965 G3
Transducer principle	dynamic	dynamic	condenser
Sensitivity	2.5 mV/Pa	1.8 mV/Pa	1.8 mV/Pa / 5.7 mV/Pa
Pick-up pattern	cardioid	super-cardioid	cardioid / super-cardioid, switchable
Max. SPL	154 dB SPL	154 dB SPL	144 dB SPL/154 dB SPL

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